INDEX

ABSORPTION of chloride from small intestine, carotid sinus and, 149.
—— of saline, intestinal, blood pressure and, 466.
Acclimatization to extreme cold, 99.
Acetylcholine in determination of circulation time, 504.
Action potentials in DCA treated rats, 451.
ADAMS, A. D., JR. See BRUNICH, MCWILLIAMS, MASON, ADAMS and ERSHOFF, 551.
Adrenal cortex after hypophysial stalk extirpation, 222.
—— —— extract, effect of, on blood glucose level, 423.
—— —— ——, —— ——, on liver and kidney, 580.
—— response to total body x-radiation, 480.
Adrenalin, action of, on spinal neurones, 37.
——, central hyperglycemic action of, 588.
——, effect of, on blood sugar and hypoxia, 321.
—— injection, effect of, on blood flow, 181.
Adrenocorticotropic hormone, effect of, on urinary glucose and nitrogen in diabetes, 400.
ALBANESE, A. A., V. IRBY, J. E. FRANKSTON and M. LEIN. The effect of carbohydrate feeding on the output of urinary amino acid, 389.
ALEXANDER, I. E. See SIEGEL, ALEXANDER and STUCKEY, 729.
ALEXANDER, R. S. and E. A. WEBB. An analysis of changes in the contour of the femoral arterial pulse during hemorrhagic shock, 272.
Allantoin, blood uric acid and, after nephrectomy and hepatectomy, 677.
Alloxan, effect of, on muscle glycolysis, 613.
Altitude, effect of oxygen, exercise and, on breath-holding time, 142.
Alveolar air during simulated flights to high altitudes, 202.
Amino acid, urinary, effect of carbohydrate feeding on output of, 389.
Amino acids, blood, effect of insulin on, 682.
ANNEGERS, J. H. AND A. C. IVY. The effect of dietary fat upon gastric evacuation in normal subjects, 461.
Anoxia, acute, effect of, on pulmonary artery pressure, 315.
——, anoxemic, effects of, on heart muscle, 493.
——, discontinuous chronic, effect of, on liver glycogen stores, 65.
—— from exposure to low barometric pressure, 1.
ARANA, R. See LEIMDORFER, ARANA and HACK, 588.
Arterial pulse, femoral, in hemorrhagic shock, 272.
Arteries of cat, streamline blood flow in, 52.
Artery pressure, pulmonary, effect of acute anoxia on, 315.

BALDWIN, J. See COURNAND, MOTLEY, HIMMELSTEIN, DRESDALE and BALDWIN, 267.
BALL, Z. B., R. H. BARNES and M. B. VISSCHER. The effects of dietary caloric restriction on maturity and senescence, with particular reference to fertility and longevity, 511.
Barbiturates, effect of, on fatigue produced by prolonged wakefulness, 253.
BARNES, R. H. See BALL, BARNES and VISSCHER, 511.
——. See RISLEY, RAYMOND and BARNES, 754.
BENNETT, L. L. and C. H. LI. The effects of the pituitary growth and adrenocorticotropic hormones on the urinary glucose and nitrogen of diabetic rats, 400.
Bile, recovery of intravenously injected BSP from, 299.
Bioassay of steroid hormones, 444.
BISCHOFF, F. and H. R. PILHORN. Bioassay of steroid hormones using aqueous sodium lauryl sulfate solution as the dispersing agent, 444.
Blood,-acetylcholine in determination of circulation time, 504.
—— amino acids, effect of insulin on, 682.
——, bone-marrow, O_2 in, and erythropoiesis, 618.
——-borne vasotropic substances in shock, 239.
—— coagulation factor, fibrinogen and, in stored plasma, 405.
—— ——, factors in, 409.
—— flow and activity, temperature, in skeletal muscle, 705.

Blood flow and blood content of skin, 122.
—— ——, effect of adrenalin injection on, 181.
—— —— in arteries of cat, 52.
—— ——, peripheral, control of, 304.
—— glucose level, effect of adrenal cortex extract on, 423.
——, oxygen content of, at low barometric pressures, 1.
—— plasma, esterase activity of, 746.
—— —— protein, physiological effects of, 471.
—— ——, recovery of a pressor principle from, 353.
—— ——, specific gravity of, in water privation, 729.
—— ——, stored, fibrinogen and coagulation factor in, 405.
—— —— volume and thiocyanate space in famine edema, 170.
—— pressure and intestinal absorption of saline, 466.
—— —— flow studies on renal circulation, 534.
—— ——, pulmonary artery, 315.
—— —— tracings from left auricle and pulmonary veins, 267.
——, renal venous, renin content of, 198.
—— sugar and hypoxia, effect of adrenalin on, 321.
—— ——, body temperature and, in the chicken, 67.
—— —— levels after ingestion of sucrose, 263.
—— uric acid and allantoin after nephrectomy and hepatectomy, 677.
—— volume, effect of temperature and posture on, 628.
Bobb, J. R. R. and H. D. Green. Effect of heparin on ischemic compression shock, 697.
—— —— ——. Rôle of the kidney in resistance to ischemic compression shock, 700.
Bodnar, S. R. See Guest, Murphy, Bodnar, Ware and Seegers, 471.
Body temperature and blood sugar in the chicken, 67
Bone marrow blood, O_2 in, and erythropoiesis, 618.
Borison, H. L. See Wang and Borison, 712, 722.
Boron, effects of adding, to potassium-deficient diet, 520.
Brain in convulsions, changes in, 27.
Brauer, R. W. and E. Hardenbergh. Distribution of esterase in lymph from from various regions and in relation to lymphoid tissue, 746.
Breath-holding time, 142.
Breckenridge, C. G. See Keller and Breckenridge, 222.
Britton, S. W., V. A. Pertzoff, C. R. French and R. F. Kline. Circulatory and cerebral changes and protective aids during exposure to acceleratory forces, 7.
Bromsulphalein, intravenously injected, removal of, by liver, 299.
Brunish, V. H., H. B. McWilliams, G. D. Mason, A. D. Adams, Jr. and B. H. Ershoff. Effects of vitamin imbalance under conditions of ad libitum feeding and reduced caloric intake, 551.
Bucher, G. R. and A. C. Ivy. Disappearance of uropepsin from the urine of gastrectomized cats, 415.
Burn shock, efficacy of infusion fluids in, 428.
Byer, J. See Harpuder, Byer and Stein, 181.
Byers, S. O., M. Friedman and M. M. Garfield. The blood uric acid and allantoin of the rat after nephrectomy and hepatectomy, 677.

CALORIC intake, reduced, vitamin imbalance in, 551.
—— restriction, effects of, on fertility and longevity, 511.
Carbohydrate feeding, effect of, on output of urinary amino acid, 389.
Cardiac. *See* Heart.
Cardiovascular reflex mechanism, carotid sinus, 712, 722.
Carotid-mandibular reflex in gasping, 358.
Carotid sinus and absorption of chloride from small intestine, 149.
—— —— cardiovascular reflex mechanism 712, 722.
Cerebral changes, circulatory and, from acceleratory forces, 7.
Chambers, R. and B. W. Zweifach. Blood-borne vasotropic substances in experimental shock, 239.
Chloride, absorption of, from small intestine, carotid sinus and, 149.

CHRISTENSEN, W. R. See FERRIS, FORSTER, PILLION and CHRISTENSEN, 304.
Circulation, renal, pressure flow studies on, 534.
—— time, acetylcholine in determination of, 504.
Circulatory and cerebral changes from acceleratory forces, 7.
CISNEROS, F. See WILBURNE, SCHLICHTER, GROSSMAN and CISNEROS, 504.
COHN, C., R. LEVINE and D. STREICHER. The rate of removal of intravenously injected bromsulphalein by the liver and extra-hepatic tissues of the dog, 299.
Cold, extreme, acclimatization to, 99.
COLFER, H. F. and H. E. ESSEX. The distribution of total electrolyte, potassium and sodium in the cerebral cortex in relation to experimental convulsions, 27.
Convulsions, changes in brain in, 27.
COREY, E. L. An experimental study of explosive decompression injury, 607.
COURNAND, A., H. L. MOTLEY, A. HIMMELSTEIN, D. DRESDALE and J. BALDWIN. Recording of blood pressure from the left auricle and the pulmonary veins in human subjects with interauricular septal defect, 267.
——. See MOTLEY, COURNAND, WERKO, HIMMELSTEIN and DRESDALE, 315.

DANLEY, K. S. See SHIPLEY and DANLEY, 84.
DCA treated rats, action potentials in, 451.
Decompression injury, explosive, 607.
—— sickness on re-ascent to high altitudes, 133.
DEMPSTER, W. T. and J. C. FINERTY. Relative activity of wrist moving muscles in static support of the wrist joint; an electromyographic study, 596.
DENISON, A. B. See LIPTON, DENISON and GREEN, 693.
DENSLOW, J. S., I. M. KORR and A. D. KREMS. Quantitative studies of chronic facilitation in human motoneuron pools, 229.
Depancreatized herbivora, action of insulin in, 46.
DEXTER, L. See HAYNES and DEXTER, 190.
——. See HAYNES, DEXTER and SEIBEL, 198.
Diabetes, effect of hormones on urinary glucose and nitrogen in, 400.
——, pituitary and ovarian disfynction in, 84.
Dietary fat, effect of, on gastric evacuation, 461.
DONHOFFER. S. and J. VONOTZKY. The effect of environmental temperature on food selection, 329.
—— —— ——. The effect of thyroxine on food intake and selection, 334.
DRESDALE, D. See COURNAND, MOTLEY, HIMMELSTEIN, DRESDALE and BALDWIN, 267.
——. See MOTLEY, COURNAND, WERKO, HIMMELSTEIN and DRESDALE, 315.

EDEMA, famine, plasma volume and thiocyanate space in, 170.
Electrolyte, Na and K changes in brain in convulsions, 27.
Electromyographic studies on sciatic nerve, 558.
ELLIOTT, H. W. See RALSTON, TAYLOR and ELLIOTT, 52.
Endocrine glands, urogastrone excretion after extirpation of, 373.
Energy-rich phosphate supply of failing heart, 733.
ERSHOFF, B. H. See BRUNISH, McWILLIAMS, MASON, ADAMS and ERSHOFF, 551.
Erythropoiesis, O_2 in bone marrow blood and, 618.
ESSEX, H. E. See COLFER and ESSEX, 27.
Esterase activity of blood plasma of dog, 746.
Estrone, response to, after ovariectomy, thyroid activity and, 760.
Exercise, effect of oxygen, altitude and, on breath-holding time, 142.
Explosive decompression injury, 607.
Eye changes from fluid injection into vitreous humor, 568.
EYSTER, J. A. E. and W. E. GILSON. Electrical characteristics of injuries to heart muscle, 572.

FACILITATION in man, 229.
Fat, dietary, effect of, on gastric evacuation, 461.
Fatigue of standing, 109.
—— produced by prolonged wakefulness, 253.
Femoral arterial pulse in hemorrhagic shock, 272.

FERRIS, B. G., JR., R. E. FORSTER, II, E. L. PILLION and W. R. CHRISTENSEN. Control of peripheral blood flow: responses in the human hand when extremities are warmed, 304.
Fibrinogen and coagulation factor in stored plasma, 405.
Fibrinolysin, anti-, in chick plasma, 661.
FINERTY, J. C. See DEMPSTER and FINERTY, 596.
FIZZELL, J. A. See GOLSETH and FIZZELL, 558.
FOLLIS, R. H., JR. The effect of adding boron to a potassium-deficient diet in the rat, 520.
Food intake and selection, effect of thyroxine on, 334.
—— selection, effect of environmental temperature on, 329.
FORSTER, R. E., II. See FERRIS, FORSTER, PILLION and CHRISTENSEN, 304.
FORSTER, R. P. An examination of some factors which alter glomerular activity in the rabbit kidney, 523.
—— and J. P. MAES. Effect of experimental neurogenic hypertension on renal blood flow and glomerular filtration rates in intact denervated kidneys of unanesthetized rabbits with adrenal glands demedullated, 534.
FRANKSTON, J. E. See ALBANESE, IRBY, FRANKSTON and LEIN, 389.
FREEDMAN, A. See HORVATH, FREEDMAN and GOLDEN, 99.
FRENCH, C. R. See BRITTON, PERTZOFF, FRENCH and KLINE, 7.
FRIEDMAN, C. L. See FRIEDMAN, POLLEY and FRIEDMAN, 340.
FRIEDMAN, M. See BYERS, FRIEDMAN and GARFIELD, 677.
FRIEDMAN, S. M., J. R. POLLEY and C. L. FRIEDMAN. The clearance of inulin and sodium p-aminohippurate in the rat, 340.
FUHRMAN, F. A. See TURNER and FUHRMAN, 325.

GARFIELD, M. M. See BYERS, FRIEDMAN and GARFIELD, 677.
Gastrectomy, loss of uropepsin from urine after, 415.
Gastric evacuation, effect of dietary fat on, 461.
—— lesions, suppression of, by anti-ulcer substances, 754.
GEMMILL, C. L. The effect of alloxan on muscle glycolysis, 613.
Genital structure and function, effect of hyperthyroidism on, 95.
GERARD, R. W. See TSCHIRGI and GERARD, 358.
GILSON, W. E. See EYSTER and GILSON, 572.
Glucose level of blood, effect of adrenal cortex extract on, 423.
Glycogen stores, liver, effect of discontinuous chronic anoxia on, 65.
Glycolysis, muscle, effect of alloxan on, 613.
GOLDEN, H. See HORVATH, FREEDMAN and GOLDEN, 99.
GOLSETH, J. G. and J. A. FIZZELL. Electromyographic studies on cats after section and suture of the sciatic nerve, 558.
GRANT, W. C. and W. S. ROOT. The relation of O_2 in bone marrow blood to post-hemorrhagic erythropoiesis, 618.
GREELEY, P. O. The action of insulin as indicated by depancreatized herbivora, 46.
GREEN, H. D. See BOBB and GREEN, 697, 700.
——. See LIPTON, DENISON and GREEN, 693.
GROSSMAN, M. See MACK, GROSSMAN and KATZ, 654.
——. See WILBURNE, SCHLICHTER, GROSSMAN and CISNEROS, 504.
GUEST, M. M., R. C. MURPHY, S. R. BODNAR, A. G. WARE and W. H. SEEGERS. Physiological effects of a plasma protein: blood pressure, leucocyte concentration, smooth and cardiac muscle activity, 471.
——, A. G. WARE and W. H. SEEGERS. A quantitative study of antifibrinolysin in chick plasma: increase in antifibrinolysin activity during pteroylglutamic acid deficiency, 661.
——. See WARE, GUEST and SEEGERS, 58.
GUSTAVSON, R. G. See LANGHAM and GUSTAVSON, 760.
GUYTON, A. C. Analysis of respiratory patterns in laboratory animals, 78.
——. Measurement of the respiratory volumes of laboratory animals, 70.

HACK, M. H. See LEIMDORFER, ARANA and HACK, 588.
HALDI, J. and W. WYNN. Blood sugar levels and the behavior pattern of young healthy adults several hours after the ingestion of large amounts of sucrose, 263.
HAMILTON, A. S., W. M. PARKINS and F. WALTZER. A comparison of ten infusion fluids in the treatment of moderate and severe hemorrhage in animals, 641.
HAMILTON, W. F. See REMINGTON and HAMILTON, 292.
HARDENBERGH, E. See BRAUER and HARDENBERGH, 746.
HARPUDER, K., J. BYER and I. D. STEIN. The effect of intra-arterial injection of adrenalin upon blood flow of the human forearm, 181.
HARRIS, A. S. and W. P. MATLOCK. The effects of anoxemic anoxia on excitability, conduction and refractoriness of mammalian cardiac muscle, 493.
HAYNES, F. W. and L. DEXTER. Renin, hypertensinogen and hypertensinase concentration of blood of dogs during the development of hypertension by constriction of the renal artery, 190.
——, —— and R. E. SEIBEL. Renin content of renal venous blood of normal and hypertensive patients at rest, 198.
HEAGAN, B. S. See MILLER, HEAGAN and TAYLOR, 1.
Heart—blood flow in interauricular septal defect, 267.
——, evaluation of work of, 292.
——, failing, energy-rich phosphate supply of, 733.
—— muscle, effects of anoxemic anoxia on, 493.
—— —— injury, electrical signs of, 572.
—— size and function in semi-starvation and rehabilitation, 153.
Heart. *See* Cardiac.
Heat, radiant, sweat gland responses to, 365.
HELMER, O. M. and R. E. SHIPLEY. Recovery of a pressor principle from the blood plasma of cats given kidney extracts, 353.
Hemorrhage, infusion fluids in treatment of, 641.
HENSCHEL, A., O. MICKELSEN, H. L. TAYLOR and A. KEYS. Plasma volume and thiocyanate space in famine edema and recovery, 170.
——. See KEYS, HENSCHEL and TAYLOR, 153.
Heparin, effect of, on ischemic compression shock, 697.
Hepatectomy, blood uric acid and allantoin after nephrectomy and, 677.
Herbivora, depancreatized, action of insulin in, 46.
HERTZMAN, A. B., W. C. RANDALL and K. E. JOCHIM. Relations between cutaneous blood flow and blood content in the finger pad, forearm and forehead, 122.
HIMMELSTEIN, A. See COURNAND, MOTLEY, HIMMELSTEIN, DRESDALE and BALDWIN, 267.
——. See MOTLEY, COURNAND, WERKO, HIMMELSTEIN and DRESDALE, 315.
HINES, H. M. See KEMP, TUTTLE and HINES, 705.
Histamine excretion in parathyroidectomized dogs, 420.
HONORATO, R. The plasmatic cofactor of thromboplastin: its adsorption with prothrombin and fibrinogen, by alumina and tricalcium phosphate gels, 381.
—— and A. J. QUICK. The relation of fibrinogen to the coagulation factor which diminished in stored plasma, 405.
Hormone, lactogenic, specificity of, 394.
Hormones, growth and adrenocorticotropic, effect of, on urine in diabetes, 400.
——, steroid, bioassay of, 444.
HORVATH, S. M., A. FREEDMAN and H. GOLDEN. Acclimatization to extreme cold, 99.
HURST, V. and C. W. TURNER. The thyroid secretion rate of growing and mature mice, 686.
Hyperglycemia from action of adrenalin on central nervous system, 588.
Hypertension, relation of renin to, 190.
Hyperthyroidism, effect of, on genital structure and function, 95.
Hypophysial stalk extirpation, insulin tolerance and adrenal cortex after, 222.
Hypoxia, effect of adrenalin on blood sugar and, 321.

INFUSION, fluids, efficacy of, in burn shock, 428.
—— —— in treatment of hemorrhage, 641.

Ingle, D. J., M. C. Prestrud and J. E. Nezamis. The effect of insulin upon the level of blood amino acids in the eviscerated rat as related to the level of blood glucose, 682.
——, ——, —— and M. H. Kuizenga. Effect of adrenal cortex extract upon the tolerance of the eviscerated rat for intravenously administered glucose, 423.
Injury, explosive decompression, 607.
Innervation, re-, spontaneous, in paretic muscles, 670.
Insulin, action of, in depancreatized herbivora, 46.
——, effect of, on blood amino acids, 682.
—— tolerance after hypophysial stalk extirpation, 222.
Intestinal absorption of saline, blood pressure and, 466.
Intestine, small, absorption of chloride from, carotid sinus and, 149.
Irby, V. See Albanese, Irby, Frankston and Lein, 389.
Ischemic compression shock, 693, 697, 700.
Ivy, A. C. See Annegers and Ivy, 461.
——. See Bucher and Ivy, 415.

Jochim, K. E. See Hertzman, Randall and Jochim, 122.
John, E. S. See Patt, Swift, Tyree and John, 480.

Katz, L. N. See Mack, Grossman and Katz, 654.
Kaulbersz, J., T. L. Patterson, D. J. Sandweiss and H. V. Saltzstein. Alterations in urogastrone excretion produced by extirpation of various endocrine glands, 373.
Keller, A. D. and C. G. Breckenridge. Retention of normal insulin tolerance and adrenal cortex after extirpation of the hypophysial stalk in the dog, 222.
Kemp, C. R., W. W. Tuttle and H. M. Hines. Studies on the temperature characteristics, blood flow and activity in normal and denervated limbs of the dog, 705.
Keys, A., A. Henschel and H. L. Taylor. The size and function of the human heart at rest in semi-starvation and in subsequent rehabilitation, 153.
——. See Henschel, Mickelsen, Taylor and Keys, 170.
Kidney, liver and, effect of adrenal cortex extract on, 580.
——, rabbit, glomerular activity in, 523.
——, rôle of, in resistance to ischemic compression, shock, 700.
Kline, R. F. See Britton, Pertzoff, French and Kline, 7.
Kochakian, C. D. See Vail and Kochakian, 580.
Korr, I. M. See Denslow, Korr and Krems, 229.
Krems, A. D. See Denslow, Korr and Krems, 229.
Kuizenga, M. H. See Ingle, Prestrud, Nezamis and Kuizenga, 423.

Lactation, induction of, during pregnancy, 394.
Lactogenic hormone, specificity of, 394.
Langham, W. and R. G. Gustavson. Effect of level of thyroid activity on response of ovariectomized rats to estrone, 760.
Larsen, E. M. The fatigue of standing, 109.
Layton, A., M. W. Morgan, Jr. and J. M. D. Olmsted. Refractive changes produced by injection of fluids into the vitreous humor, 568.
Leimdorfer, A., R. Arana and M. H. Hack. Hyperglycemia induced by the action of adrenalin on the central nervous system, 588.
Lein, M. See Albanese, Irby, Frankston and Lein, 389.
Levine, R. See Cohn, Levine and Streicher, 299.
Li, C. H. See Bennett and Li, 400.
Lipton, E. L., A. B. Denison and H. D. Green. Ischemic compression shock; influence of body temperature and of temperature of traumatized tissues, 693.
Liver and kidney, effect of adrenal cortex extract on, 580.
—— glycogen stores, effect of discontinuous chronic anoxia on, 65.
——, removal of intravenously injected BSP from, 299.
Longevity, effects of caloric restriction on, 511.
Lungs, distensibility of, pulmonary congestion and, 654.

MACK, I., M. GROSSMAN and L. N. KATZ. The effect of pulmonary vascular congestion on the distensibility of the lungs, 654.
MAES, J. P. See FORSTER and MAES, 534.
MASON, G. D. See BRUNISH, MCWILLIAMS, MASON, ADAMS and ERSHOFF, 551.
MATLOCK, W. P. See HARRIS and MATLOCK, 493.
MCCARTHY, M. D. and W. M. PARKINS. Comparative effectiveness of albumin, globin, hemoglobin, gelatin, oxypolygelatin, saline, Ringer's, blood and plasma upon the survival of rats subjected to standardized scald burns, 428.
MCWILLIAMS, H. B. See BRUNISH, MCWILLIAMS, MASON, ADAMS and ERSHOFF, 551.
MEITES, J. and C. W. TURNER. The induction of lactation during pregnancy in rabbits and the specificity of the lactogenic hormone, 394.
MICKELSEN, O. See HENSCHEL, MICKELSEN, TAYLOR and KEYS, 170.
MILLER, R. A., B. S. HEAGAN and C. B. TAYLOR. The oxygen content of arterial blood in dogs breathing air at low barometric pressures, 1.
MISRAHY, G. and S. SALAMA. The alleged excretion of histamine in parathyroidectomized dogs, 420.
MORGAN, M. W., JR. See LAYTON, MORGAN and OLMSTED, 568.
MOSES, C. An experimental study of intramuscular pressure measurements, 488.
MOTLEY, H. L., A. COURNAND, L. WERKO, A. HIMMELSTEIN and D. DRESDALE. The influence of short periods of induced acute anoxia upon pulmonary artery pressures in man, 315.
——. See COURNAND, MOTLEY, HIMMELSTEIN, DRESDALE and BALDWIN, 267.
Motoneuron pools, human, facilitation in, 229.
MUNRO, F. L. See MUNRO and MUNRO, 409.
MUNRO, M. P. and F. L. MUNRO. The reversible inactivation of prothrombin: a factor responsible for its partial reactivation, 409.
MURPHY, R. C. See GUEST, MURPHY, BODNAR, WARE and SEEGERS, 471.
Muscle glycolysis, effect of alloxan on, 613.
——, heart, effects of anoxemic anoxia on, 493.
—— injury, heart, electrical signs of, 572.
——, skeletal, temperature, blood flow and activity in, 705.
Muscles, paretic, spontaneous re-innervation in, 670.
——, reflex responses of, to pressure, 229.
——, wrist, activity of, 596.
Muscular, intra-, pressure measurements, 488.

NARCOTICS, effects of, on nervous structures, 541.
Nephrectomy and hepatectomy, blood uric acid and allantoin after, 677.
Nerve action potential, effect of *Triturus* toxin on, 325.
——, sciatic, electromyographic studies on, 558.
Nervous structures, effects of narcotics on, 541.
—— system, central, hyperglycemic action of adrenalin on, 588.
Neural relationship to muscle, 229.
Neurones, spiral, action of adrenaline on, 37.
NEWTON, M. See SPEALMAN, NEWTON and POST, 628.
NEZAMIS, J. E. See INGLE, PRESTRUD and NEZAMIS, 682.
——. See INGLE, PRESTRUD, NEZAMIS and KUIZENGA, 423.
NORTHUP, D. W. See STICKNEY, NORTHUP and VAN LIERE, 466.
——. See VAN LIERE, STICKNEY and NORTHUP, 149.

OLMSTED, J. M. D. See LAYTON, MORGAN and OLMSTED, 568.
OSTER, R. H. and D. C. SMITH. The influence of adrenalin on blood sugar and resistance to hypoxia in the nembutalized cat, 321.
OTIS, A. B. See RAHN and OTIS, 202.
Ovarian dysfunction, pituitary and, in diabetes, 84.
Ovariectomy, thyroid activity and response to estrone after, 760.
Oxygen, altitude and exercise, effect of, on breath-holding time, 142.
—— content of arterial blood at low barometric pressures, 1.
—— in bone marrow blood, relation of, to erythropoieses, 618.

PARKINS, W. M. See HAMILTON, PARKINS and WALTZER, 641.
——. See McCARTHY and PARKINS, 428.
PATT, H. M., M. N. SWIFT, E. B. TYREE and E. S. JOHN. Adrenal response to total body x-radiation, 480.
PATTERSON, T. L. See KAULBERSZ, PATTERSON, SANDWEISS and SALTZSTEIN, 373.
PERTZOFF, V. A. See BRITTON, PERTZOFF, FRENCH and KLINE, 7.
Phosphate supply, energy-rich, of failing heart, 733.
PILHORN, H. R. See BISCHOFF and PILHORN, 444.
PILLION, E. L. See FERRIS, FORSTER, PILLION and CHRISTENSEN, 304.
Pituitary and ovarian dysfunction in diabetes, 84.
—— growth hormone, effect of, on urinary glucose and nitrogen in diabetes, 400.
Plasma, chick, antifibrinolysin in, 661.
—— factor, blood pressure and leucopenia, 471.
—— volume and thiocyanate space in famine edema, 170.
Plasmatic cofactor of thromboplastin, 381.
POLLEY, J. R. See FRIEDMAN, POLLEY and FRIEDMAN, 340.
POST, R. L. See SPEALMAN, NEWTON and POST, 628.
Posture, effect of temperature and, on blood volume, 628.
Potassium-deficient diet, effects of adding boron to, 520.
Pregnancy, induction of lactation during, 394.
PRESTRUD, M. C. See INGLE, PRESTRUD and NEZAMIS, 682.
——. See INGLE, PRESTRUD, NEZAMIS and KUIZENGA, 423.
Protein, plasma, physiological effects of, 471.
Prothrombin, reversible inactivation of, 409.
——, stability of, 58.
Pteroylglutamic acid deficiency, antifibrinolysin activity during, 661.
Pulmonary artery pressures, effect of acute anoxia on, 315.
—— blood flow in interauricular septal defect, 267.
—— congestion and distensibility of lungs, 654.
Pulse, femoral arterial, in hemorrhagic shock, 272.

QUICK, A. J. See HONORATO and QUICK, 405.

RAHN, H. and A. B. OTIS. Alveolar air during simulated flights to high altitudes, 202.
RALSTON, H. J., A. N. TAYLOR and H. W. ELLIOTT. Further studies on streamline blood flow in the arteries of the cat, 52.
RANDALL, W. C. Local sweat gland activity due to direct effects of radiant heat, 365.
——. See HERTZMAN, RANDALL and JOCHIM, 122.
RAYMOND, W. B. See RISLEY, RAYMOND and BARNES, 754.
Reflex mechanism, carotid sinus cardiovascular, 712, 722.
REMINGTON, J. W. and W. F. HAMILTON. The evaluation of the work of the heart, 292.
Renal circulation, blood pressure flow studies on, 534.
—— clearance of inulin and sodium p-aminohippurate, 340.
—— function in rabbit, 523.
—— humoral pressor mechanism in man, 198.
Renin content of renal venous blood, 198.
——, relation of, to hypertension, 190.
Reproductive capacity, effects of caloric restriction on, 511.
Respiratory failure, acute, carotid-mandibular reflex in, 358.
—— patterns in laboratory animals, 78.
—— volumes of laboratory animals, 70.
REYNOLDS, O. E. The effect of discontinuous chronic anoxia on liver glycogen stores, 65.
RICHTER, K. M. and C. A. WINTER. A quantitative study of the effect of hyperthyroidism on genital structure and function, 95.
RISLEY, E. A., W. B. RAYMOND and R. H. BARNES. The use of the Shay rat in studying anti-ulcer substances, 754.
RODBARD, S. Relationship between body temperature and blood sugar in the chicken, 67.

RODBARD, S.. Studies on the recurrence of decompression sickness on re-ascent to high altitudes, 133.
——. The effect of oxygen, altitude and exercise on breath-holding time, 142.
ROOT, W. S. See GRANT and ROOT, 618.

SALAMA, S. See MISRAHY and SALAMA, 420.
SALTZSTEIN, H. C. See KAULBERSZ, PATTERSON, SANDWEISS and SALTZSTEIN, 373.
SANDWEISS, D. J. See KAULBERSZ, PATTERSON, SANDWEISS and SALTZSTEIN, 373.
SCHLICHTER, J. G. See WILBURNE, SCHLICHTER, GROSSMAN and CISNEROS, 504.
Sciatic nerve, electromyographic studies on, 558.
SEEGERS, W. H. See GUEST, MURPHY, BODNAR, WARE and SEEGERS, 471.
——. See GUEST, WARE and SEEGERS, 661.
——. See WARE, GUEST and SEEGERS, 58.
SEIBEL, R. E. See HAYNES, DEXTER and SEIBEL, 198.
SHIPLEY, E. G. and K. S. DANLEY. Pituitary and ovarian dysfunction in experimental diabetes, 84.
SHIPLEY, R. E. See HELMER and SHIPLEY, 353.
Shock, blood-borne vasotropic substances in, 239.
——, burn, efficacy of infusion fluids in, 428.
——, hemorrhagic, femoral arterial pulse in, 272.
——, ischemic compression, 693, 697, 700.
SIEGEL, P. S., I. E. ALEXANDER and H. L. STUCKEY. The change in specific gravity of the blood plasma of the rat during severe water privation, 729.
Skeletal muscle, temperature, blood flow and activity in, 705.
Skin, blood flow and content of, 122.
Sleep, fatigue due to deprivation of, 253.
SMITH, D. C. See OSTER and SMITH, 321.
SPEALMAN, C. R., M. NEWTON and R. L. POST. Influence of environmental temperature and posture on volume and composition of blood, 628.
Spinal neurones, action of adrenaline on, 37.
Starvation, semi-, and rehabilitation, heart size and function in, 153.
STAVRAKY, G. W. The action of adrenaline on spinal neurones sensitized by partial isolation, 37.
STEIN, I. D. See HARPUDER, BYER and STEIN, 181.
Steroid hormones, bioassay of, 444.
STICKNEY, J. C., D. W. NORTHUP and E. J. VAN LIERE. Systemic blood pressure as a factor in the absorption of saline from the small intestine, 466.
——. See VAN LIERE, STICKNEY and NORTHUP, 149.
STREICHER, D. See COHN, LEVINE and STREICHER, 299.
STUCKEY, H. L. See SIEGEL, ALEXANDER and STUCKEY, 729.
Sucrose, blood sugar levels after ingestion of, 263.
Sweating responses to radiant heat, 365.
SWIFT, M. N. See PATT, SWIFT, TYREE and JOHN, 480.

TAYLOR, A. N. See RALSTON, TAYLOR and ELLIOTT, 52.
TAYLOR, C. B. See MILLER, HEAGAN and TAYLOR, 1.
TAYLOR, H. L. See HENSCHEL, MICKELSEN, TAYLOR and KEYS, 170.
——. See KEYS, HENSCHEL and TAYLOR, 153.
Temperature and posture, effect of, on blood volume, 628.
——, blood, and peripheral vascular flow, 304.
——, blood flow and activity in skeletal muscle, 705.
——, body, and blood sugar in the chicken, 67.
——, ——, effect of, on ischemic compression shock, 693.
——, environmental, effect of, on food selection, 329.
Thiocyanate space, plasma volume and, in famine edema, 170.
Thromboplastin, plasmatic cofactor of, 381.
Thyroid activity and response to estrone after ovariectomy, 760.
—— secretion rate of mice, 686.
Thyroidectomy, para-, histamine excretion after, 42.
Thyroxine, effect of, on food selection and intake, 334.
Toxin, *Triturus*, effect of, on action potential, 325.

Tschirgi, R. D. and R. W. Gerard. The carotid-mandibular reflex in acute respiratory failure, 358.
Turner, C. W. See Hurst and Turner, 686.
——. See Meites and Turner, 394.
Turner, R. S. and F. A. Fuhrman. Modification of the action potential of amphibian nerves by *Triturus* embryonic toxin, 325.
Tuttle, W. W. See Kemp, Tuttle and Hines, 705.
Tyler, D. B. The effect of amphetamine sulfate and some barbiturates on the fatigue produced by prolonged wakefulness, 253.
Tyree, E. B. See Patt, Swift, Tyree and John, 480.

Ulcer, anti-, substances, study of, in Shay rat, 754.
Uric acid, blood, after nephrectomy and hepatectomy, 677.
Urinary amino acid, effect of carbohydrate feeding on output of, 389.
—— glucose and nitrogen in diabetes, effect of hormones on, 400.
Urine, loss of uropepsin from, after gastrectomy, 415.
Urogastrone excretion after extirpation of endocrine glands, 373.
Uropepsin, loss of, from urine, after gastrectomy, 415.

Vail, V. N. and C. D. Kochakian. The effect of adrenalectomy, adrenal cortical hormones, and testosterone propionate plus adrenal cortical extract on the "alkaline" and "acid" phosphatases of the liver and kidney of the rat, 580.
Van Harreveld, A. Effect of ether and pentobarbital on the polarisation state of central nervous elements, 541.
——. On the mechanism of the "spontaneous" re-innervation in paretic muscles, 670.
Van Liere, E. J., J. C. Stickney and D. W. Northup. The effect of stimulation of the carotid sinus region on absorption of chloride from the small intestine, 149.
——. See Stickney, Northup and Van Liere, 466.
Visscher, M. B. See Ball, Barnes and Visscher, 511.
Vitamin imbalance in reduced caloric intake, 551.
Vitreous humor, refractive changes from injection of fluid into, 568.
Vonotzky, J. See Donhoffer and Vonotzky, 329, 334.

Wakefulness, prolonged, 253.
Walker, S. M. Observations on the action potentials induced by indirect stimulation of skeletal muscle in desoxycorticosterone acetate-treated rats on a low potassium diet, 451.
Waltzer, F. See Hamilton, Parkins and Waltzer, 641.
Wang, S. C. and H. L. Borison. An analysis of the carotid sinus cardiovascular reflex mechanism, 712.
—— —— ——. Decussation of the pathways in the carotid sinus cardiovascular reflex: an example of the principle of convergence, 722.
Ware, A. G., M. M. Guest and W. H. Seegers. Stability of prothrombin, 58.
——. See Guest, Murphy, Bodnar, Ware and Seegers, 471.
——. See Guest, Ware and Seegers, 661.
Water privation, specific gravity of blood plasma in, 729.
Webb, E. A. See Alexander and Webb, 272.
Werko, L. See Motley, Cournand, Werko, Himmelstein and Dresdale, 315.
Wilburne, W., J. G. Schlichter, M. Grossman and F. Cisneros. The use of acetylcholine in the objective determination of circulation time and the fractionation of the vascular bed traversed, 504.
Winter, C. A. See Richter and Winter, 95.
Wollenberger, A. On the energy-rich phosphate supply of the failing heart, 733.
Wrist muscles, activity of, 596.
Wynn, W. See Haldi and Wynn, 263.

X-radiation, total body, adrenal response to, 480.

Zweifach, B. W. See Chambers and Zweifach, 239.